FIG. 1
PRIOR ART

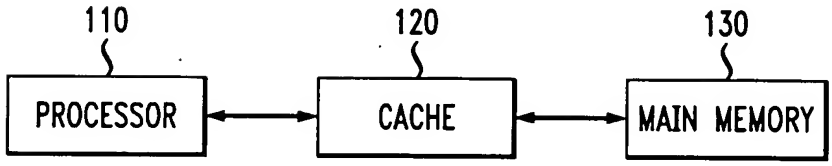


FIG. 2
PRIOR ART

120

CACHE LINE NUMBER	TAG	DATA	VALID BIT
0			
1			
2			
⋮	⋮	⋮	⋮
C-1			

K WORDS

FIG. 3

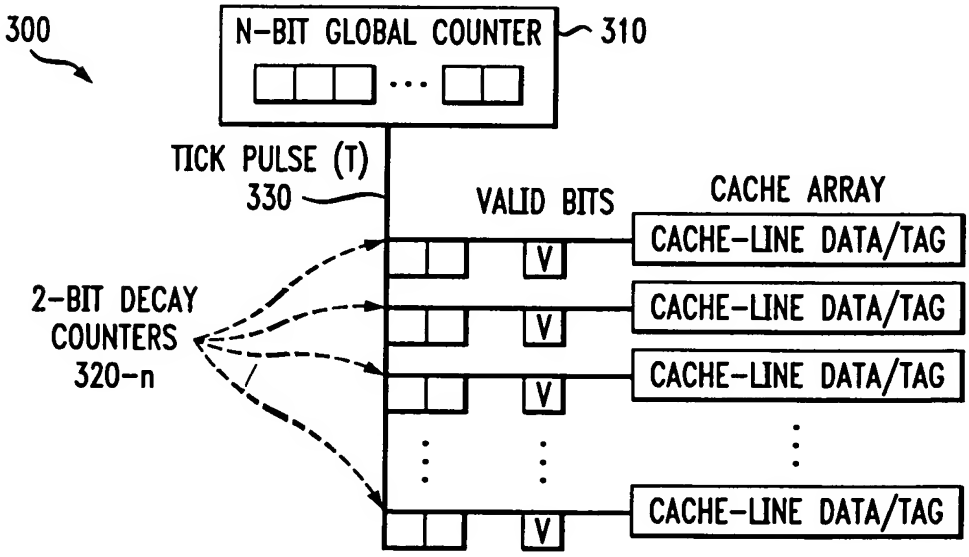


FIG. 4

400

CACHE LINE NUMBER	TAG	DATA	VALID BIT	DECAY INTERVAL 420
0				
1				
2				
⋮	⋮	⋮	⋮	⋮
C−1				

K WORDS

FIG. 8

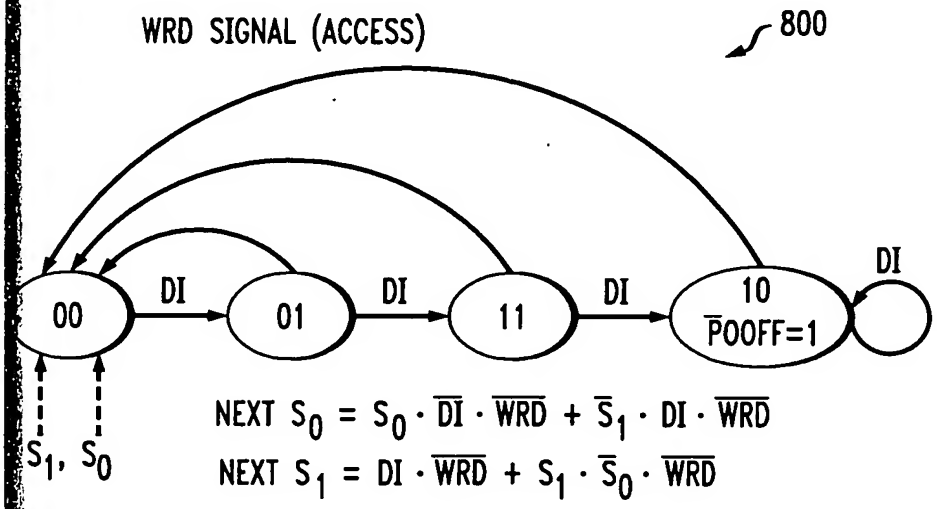


FIG. 5

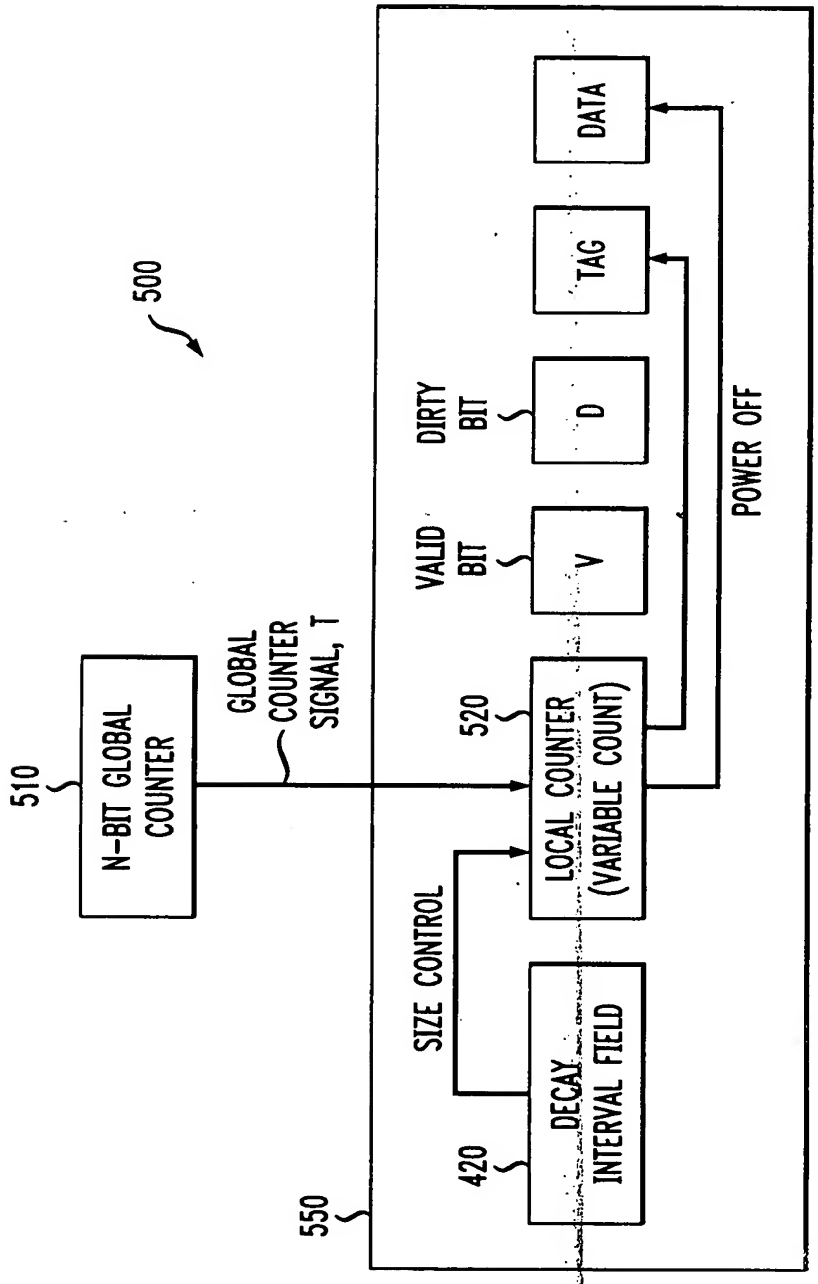

500
510
N-BIT GLOBAL COUNTER
GLOBAL COUNTER SIGNAL, T
520
LOCAL COUNTER (VARIABLE COUNT)
SIZE CONTROL
420
DECAY INTERVAL FIELD
550
VALID BIT
V
DIRTY BIT
D
TAG
DATA
POWER OFF

FIG. 6

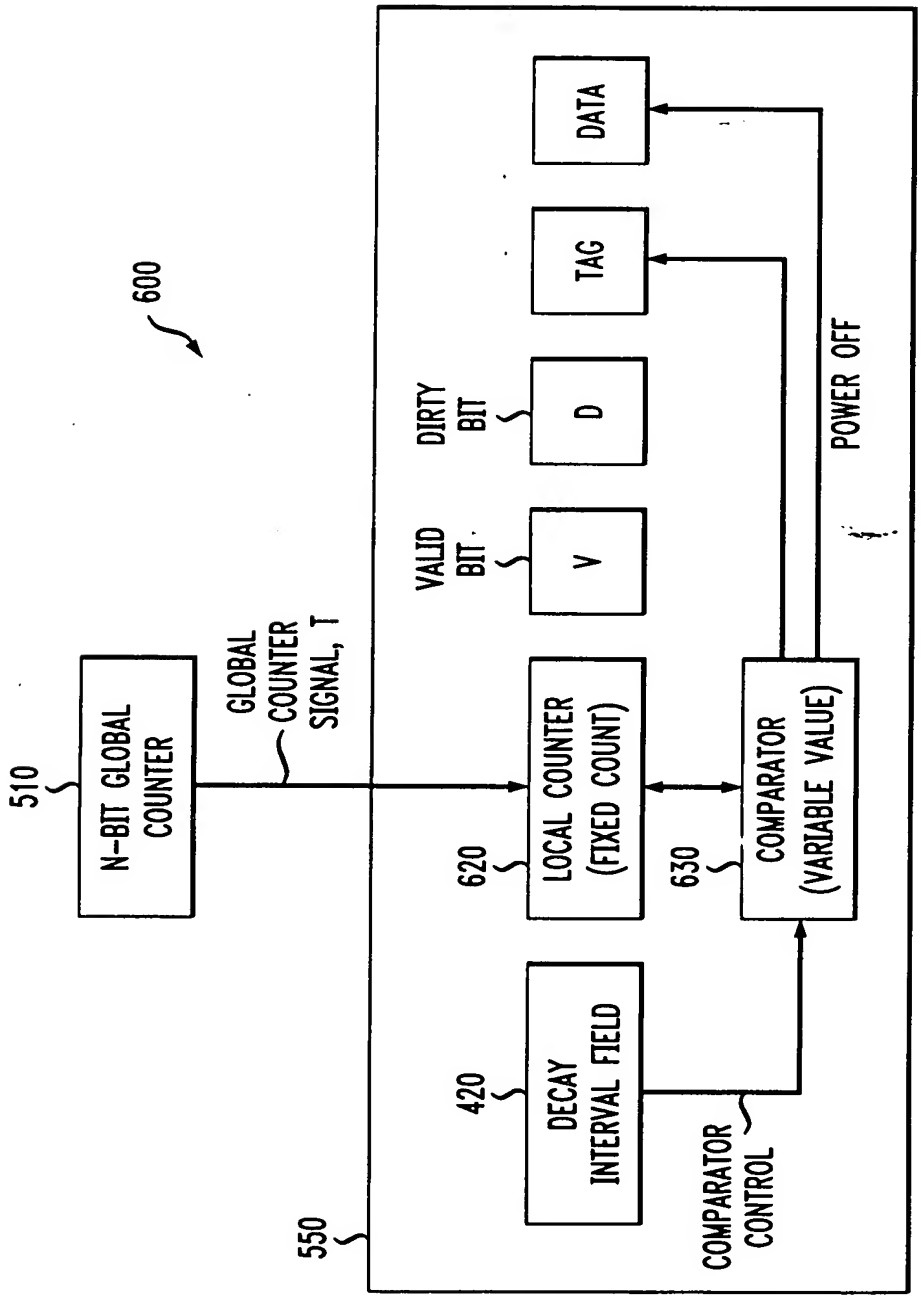
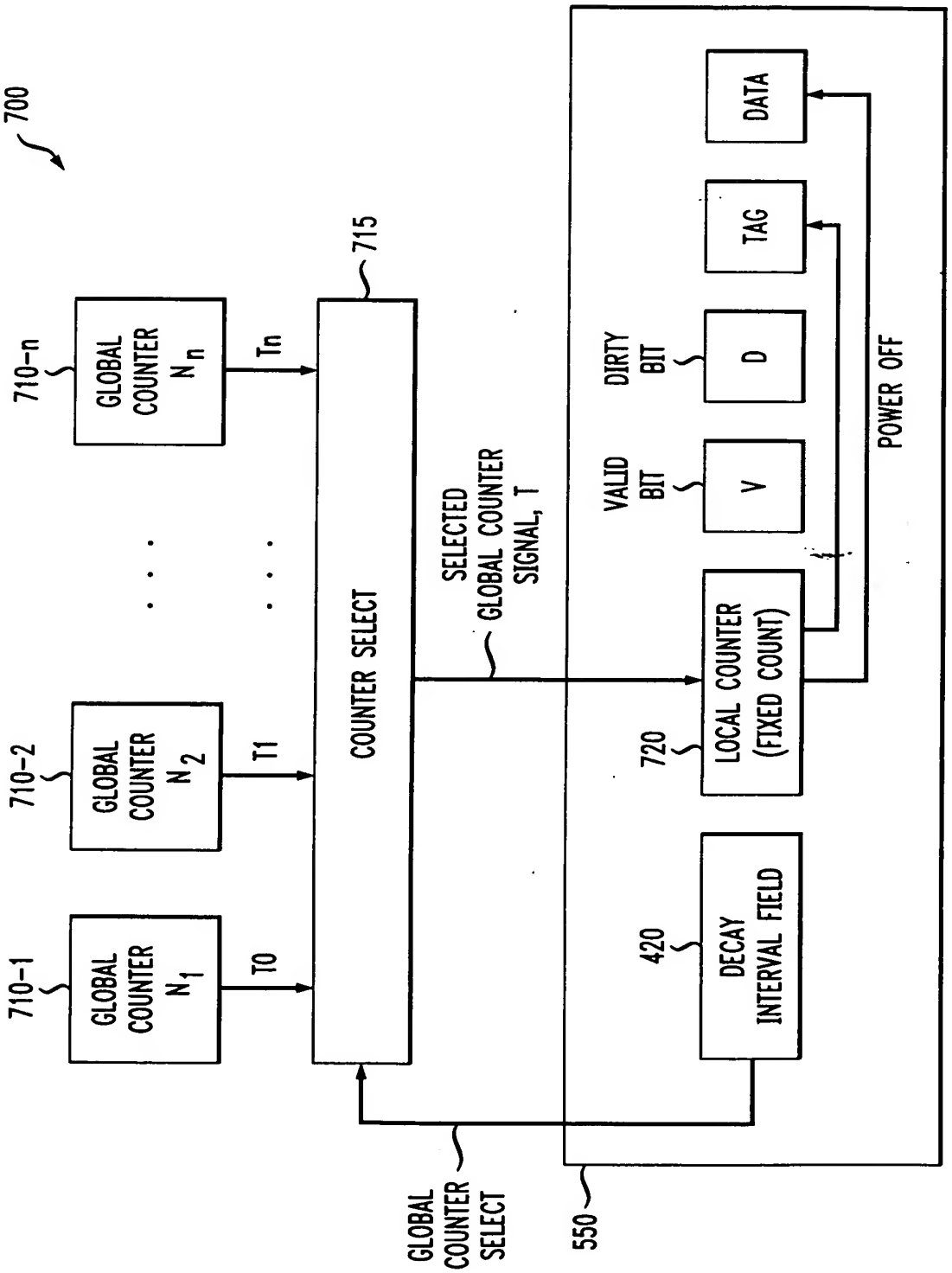

600
510
N-BIT GLOBAL COUNTER
GLOBAL COUNTER SIGNAL, T
VALID BIT
V
DIRTY BIT
D
TAG
DATA
POWER OFF
620
LOCAL COUNTER (FIXED COUNT)
630
COMPARATOR (VARIABLE VALUE)
420
DECAY INTERVAL FIELD
COMPARATOR CONTROL
550

FIG. 7


700
710-n
GLOBAL COUNTER N_n
Tn
715
710-2
GLOBAL COUNTER N_2
T1
COUNTER SELECT
710-1
GLOBAL COUNTER N_1
T0
SELECTED GLOBAL COUNTER SIGNAL, T
VALID BIT
V
DIRTY BIT
D
TAG
DATA
POWER OFF
720
LOCAL COUNTER (FIXED COUNT)
420
DECAY INTERVAL FIELD
GLOBAL COUNTER SELECT
550

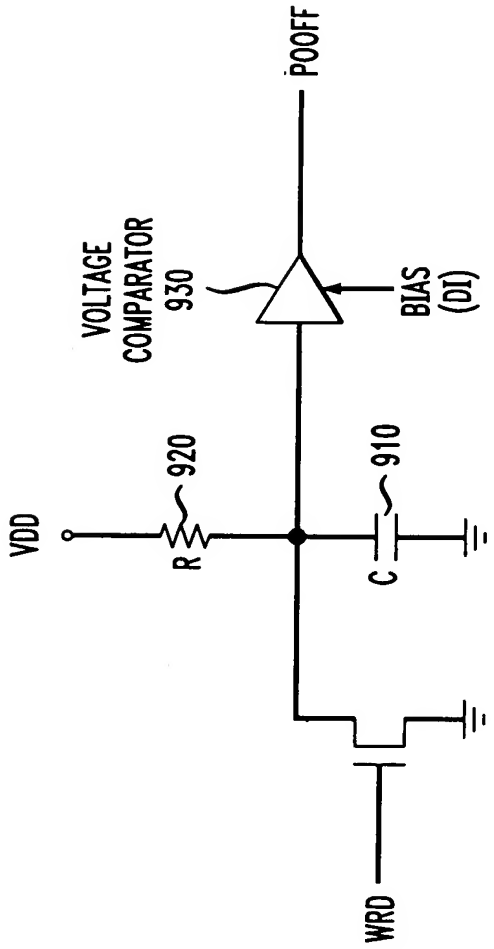


FIG. 9